

THE JOURNAL OF JAPANESE BOTANY.

EDITED BY

TOMITARÔ MAKINO, Sc. D.

LECTURER OF BOTANY IN THE FACULTY OF SCIENCE,
IMPERIAL UNIVERSITY OF TOKYO.

Vol. VIII. No. 6. June 15, 1932. (Whole No. 76.)

Published by the Tsumura Laboratory, Tokyo, Nippon.

Notes on Japanese Lichens. V.

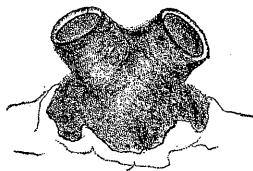
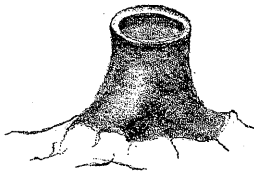
Page
29 b

By **Yasuhiko Asahina**.

Pyrgillus boninensis, Y. ASAHINA, nov. sp.

Thallus dilute sulfurescens, subnitidus, continuus vel parum rimulosus, K dilute ochraceus, CaCl—, 75–90 μ crassus, non corticatus, homoeomericus, gonidiis chroolepoideis; hypothallus albidus. Apothecia dispersa, 1–1.2 mm alta, ampullacea, excipulo carbonaceo, margine ostiolo albo pruinoso, hymenio decolore, ad basin excipulo sito, subgloboso, I dilute lutescente; mazaedium densum. Sporae fuscae, ellipsoideae, triseptatae, 8–10 μ longae, 6–7 μ crassae. Lignicola.

Closely allied to *Pyrgillus hawaiiensis* A. ZAHLBRUCKNER (Ann. mycologici, vol. X, 1912, p. 364), but differs from the latter by the totally homoeomerous



Apothecia (magnified.)

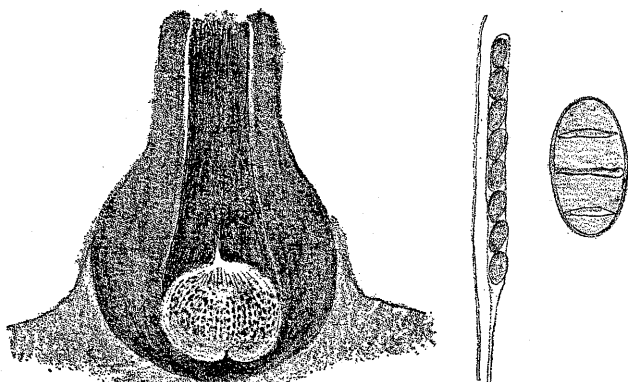
Gonidia (magnified.)

Pyrgillus boninensis Y. ASAHINA, nov. sp.

(ASAHINA del.)

thallus, whose hyphae are intermixed with minute crystalline particles and by the white pruinose apex of apothecium. The wall of apothecium is thick and carbonaceous; hymenium hyaline and clear, continuing above to the black mazaedium, which fills up the neck-canal of apothecium. Paraphyses filiform, free, eseptate; asci cylindrical, 50–60 μ long, 7–9 μ wide, not thickened at the apex.

On decorticated trunks of *Juniperus taxifolia* Hook. et Arn. Ani-sima,



Pyrgillus boninensis Y. ASAHINA, nov. sp. Vertical section of the apothecium, paraphysis, ascus and spore. (magnified)
(ASAHINA del.)

Bonin Islands (Ogasawara). Collected by F. FUZIKAWA (July 1931).

***Coniocybe luteum*, Y. ASAHINA, nov. sp.**

Thallus tenuis, effusus, flavo-glauescens vel cinerascens, subleprosus. Apothecia (cum Stiptibus) ad 1 mm alta, saepe ramosa, nigra, tota luteo-pruinosa, pulveris *K*+purpurascens. Sporae dilute flavidae, globosae, 3-3.5 μ crassae. Supra lignas emortuas.

Capitulum cup-shaped, up to 0.3 mm wide, 0.25 mm high; disc greyish. Gonidia protococcoid, algal cells globose, 6-8 μ in diameter. The purple red colouration of prunina by alkali is very characteristic.

On decayed wood. Haha-sima, Bonin Islands (Ogasawara). Collected by A. YAMAMOTO (28 July 1928).



Coniocybe lutea Y.
ASAHINA, nov. sp.